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SEQUENCE LISTING



<10> Spertini, Francois

<11> NOVEL BEE VENOM POLYPEPTIDES AND METHODS OF USE THEREOF

<13> 18519-001

<140> 09/506,978

<141> 2000-02-18

<160> 5

<170> PatentIn Ver. 2.0

<210> 1

<211> 67

<212> PRT

<213> Apis mellifera

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Gly Gly Phe Gly Gly Leu Gly Gly Arg Gly Lys Cys Pro Ser Asn Glu
1 5 10 15

Ile Phe Ser Arg Cys Asp Gly Arg Cys Gln Arg Phe Cys Pro Asn Val
20 25 30

Val Pro Lys Pro Leu Cys Ile Lys Ile Cys Ala Pro Gly Cys Val Cys
35 40 45

Arg Leu Gly Tyr Leu Arg Asn Lys Lys Lys Val Cys Val Pro Arg Ser
50 55 60

Lys Cys Gly
65

<210> 2

<211> 69

<212> PRT

<213> Apis mellifera

<220>

<223> Where XX at position 68 and 69 is either PL or LP.

<400> 2

Gly Gly Phe Gly Gly Leu Gly Gly Arg Gly Lys Cys Pro Ser Asn Glu
1 5 10 15

Ile Phe Ser Arg Cys Asp Gly Arg Cys Gln Arg Phe Cys Pro Asn Val
 20 25 30

Val Pro Lys Pro Leu Cys Ile Lys Ile Cys Ala Pro Gly Cys Val Cys
 35 40 45

Arg Leu Gly Tyr Leu Arg Asn Lys Lys Lys Val Cys Val Pro Arg Ser
 50 55 60

Lys Cys Gly Xaa Xaa
 65

<210> 3
 <211> 71
 <212> PRT
 <213> Apis mellifera

<400> 3
 Phe Gly Gly Phe Gly Gly Phe Gly Gly Leu Gly Gly Arg Gly Lys Cys
 1 5 10 15

Pro Ser Asn Glu Ile Phe Ser Arg Cys Asp Gly Arg Cys Gln Arg Phe
 20 25 30

Cys Pro Asn Val Val Pro Lys Pro Leu Cys Ile Lys Ile Cys Ala Pro
 35 40 45

Gly Cys Val Cys Arg Leu Gly Tyr Leu Arg Asn Lys Lys Lys Val Cys
 50 55 60

Val Pro Arg Ser Lys Cys Gly
 65 70

<210> 4
 <211> 73
 <212> PRT
 <213> Apis mellifera

<220>
 <223> Where XX at position 72 and 73 is either PL or LP.

<400> 4
 Phe Gly Gly Phe Gly Gly Phe Gly Gly Leu Gly Gly Arg Gly Lys Cys
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Pro Ser Asn Glu Ile Phe Ser Arg Cys Asp Gly Arg Cys Gln Arg Phe
20 25 30

Cys Pro Asn Val Val Pro Lys Pro Leu Cys Ile Lys Ile Cys Ala Pro
35 40 45

Gly Cys Val Cys Arg Leu Gly Tyr Leu Arg Asn Lys Lys Lys Val Cys
50 55 60

Val Pro Arg Ser Lys Cys Gly Xaa Xaa
65 70

<210> 5

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: CYSTEINE
SPACING MOTIF

<220>

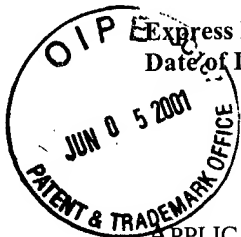
<223> Where any X can be any amino acid.

<400> 5

Cys Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa Cys Xaa Xaa
1 5 10 15

Xaa Cys Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa Cys Xaa
20 25 30

Xaa Xaa Cys
35



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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANTS: Spertini
SERIAL NUMBER: 09/506,978 EXAMINER: P. Huynh, Ph.D.
FILING DATE: February 18, 2000 ART UNIT: 1644
FOR: NOVEL BEE VENOM POLYPEPTIDES AND METHODS OF USE THEREOF

Assistant Commissioner for Patents
Washington, D.C. 20231

TRANSMITTAL LETTER

Applicants are filing herewith a response to the Office communication containing the Restriction Requirement and Notice to Comply with Requirements for Patent Applications Containing Nucleotide Sequence and/or Amino Acid Sequence Disclosures mailed April 5, 2001, which is due, with extension, on or before June 5, 2001. Enclosed herewith are the following for the above-identified non-provisional patent application:

- Response to Restriction Requirement (1 page);
- Copy of Notice to Comply with Sequence Listing Requirements (1 page);
- Petition for Extension of Time (1 page);
- Check No. 9091 in the amount of \$55.00
- Initial Computer Readable Form Copy of the "Sequence Listing" (1 diskette);
- Paper Copy of the "Sequence Listing" (3 pages);
- Statement in Support of Computer Readable Form Submission (1 page);
- Preliminary Amendment (6 pages.); and
- Postcard.

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The Commissioner is hereby authorized to charge any fee that may be due, or to credit any overpayment, to Deposit Account No. 50-0311, Reference No. 18519-001 (EPFL-1). A duplicate copy of this transmittal letter is enclosed.

Respectfully submitted,

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Dated: June 5, 2001